NWS CHANGE FORM								1A. DATE SUBMITTED			
	PART A	December 10, 2003									
		1B. DATE RECEIVED									
	This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B and C as po										
change date, enter 60 d mailbox (External: NW S	•	73. Submit change requests to the	NWSRC								
2. ORIGINATOR	3. SUBMITTING AUTH	ORITY	4. COGNI	ZANT	TECHNICAL INDI	VIDUA	AL.	5. ORIGINATOR TRACKING NUMBER			
OFFICE Office of Science and	Name:Henry Robinson		Name: Da								
Technology, Systems	Routing Code: OS12		Routing C Phone: 30								
Engineering Center (OST32)			Name: Jai	mes He	il						
			Routing C Phone: 30								
6. SYSTEMS AFFECT	ED BY CHANGE		1 110110.00	71-710	J400 X 11 2			7. WSH TRACKING NUMBER	7A. REV		
☐ DATA PROD	ucts \square	OTHEF	R (specify)						LEVEL		
				_		_					
ASOS	X AWIPS	NEXRA	\D		RRS		CRS				
8. TITLE OF CHANGE								9. OPERATIONAL REQUIREMENTS			
Draft: Add a F	ull Set of Eta 12	218 (Grids to	SB	N/NOAAPO	RT		DOCUMENT IDENTIFIER			
10. CATEGORY OF CI	HANGE					11. C	LASS OF C	HANGE			
X RC	PECP	ECP					CLASSI	CLASSII			
12. TYPE OF CHANG	E	_									
DOCUMENT	TATION ONLY	HARDV	VARE	X	SOFTWARE	X	DATA				
13. SITES AFFECTED	7 111 01100										
	OF REQUIREMENT		,								
								P's Eta (12 km res) m			
	grids, augmenting the current suite of Eta grids available to AWIPS sites. This effort will expand to the full Eta 12 parameter set, providing it out to 84 hours (see DRG RC 666										
								uite). This RC cover			
								RIB2 with jpeg2000.			
This full set	This full set of Eta 12 grids will be allocated within AWIPS OB4.										
15. KNOWN OR PROPOSED SOLUTION											

The additional Eta 12 forecast times should be added to the SBN and made available to AWIPS sites, following a dissemination pathway similar to the existing AWIPS Eta 12 grids: $\text{NCEP} \to \text{NWS} \ \text{TG} \to \text{AWIPS} \ \text{NCF} \to \text{SBN} (\text{TG1} \ \text{or} \ \text{TG2} \ \text{chan}) \to \text{AWIPS} \ \& \ \text{NOAAPORT} \ \text{Users.}$ Specifications for new Eta 12 grids: 1. Grid 218 (CONUS) 2. Parameter set (with Levels): 38 total parameters (Based on mesoEta parameters from Grids 212, 215, 216, and 217) Geopotential Height (30; a/Frz) Surface Maximum Temperature Temperature (36; a/c/Trop/2m FHAG) Surface Minimum Temperature Relative Humidity (32; b/c/Sig 33>100/Frz/2m FHAG) Surface Wind Speed u-wind (37; a/c/Trop/MaxW/10m FHAG) Surface Wind Direction v-wind (37; a/c/Trop/MaxW/10m FHAG) Surface Dewpoint Temperature Total Cloud Cover Pressure Vertical Velocity (29; a) Surface Pressure Thunderstorm Probability Absolute Vorticity (5; d) Frozen Precipitation Probability Freezing Precipitation Probability Convective Precipitation Total Precipitation Precipitation Probability Precipitable Water Snow Depth MSLP Tropopause Pressure MSLP (Eta model reduction) Maximum Wind Level Pressure Lifted Index Surface Lifted Index Best Lifted Index (2; Sfc/BL 0-180m AGL) Categorical Rain CAPE (2; Sfc/BL 0-180m AGL) Categorical Freezing Rain CIN (2; Sfc/BL 0-180m AGL) Categorical Ice Pellets Helicity Categorical Snow Water Equivalent Accum. Snow Depth Visibility 3. Levels (Specified within parameter set above): a. 29 Levels: 1000 to 500 mb by 25 mb steps; then 450 to 100 mb by 50 mb steps 24 Levels: 975 to 500 mb by 25 mb steps; then 450 to 300 mb by 50 mb steps 5 Levels 0-30m, 30-60m, 60-90m, 90-120m, and 120-150m AGL 5 Levels: 1000, 850, 700, 500, and 250 mb 4. Forecast Intervals AWIPS IFPS Eta 12 grids are provided out to 84 hours for all four model runs (at three hour intervals), giving 29 total "valid times:" 00, 03, 06, 09, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, and 84 Hrs. Units are hours from model initialization time. 5. The four Eta 12 model run times are 00, 06, 12 & 18 UTC. 6. An estimated TBD Mbytes/day is expected on the SBN/TG channel, given: a. Average size these 218 (CONUS) grid is TBD; b. 238 total new grids per forecast interval; and c. 116 total forecast intervals: 29 intervals at 00, 06, 12, and 18 UTC The NWS TG shall provide these products in very-near-real time to the AWIPS NCF for uplink on the SBN's TG channel. 16. ALTERNATE SOLUTIONS None. 17. REQUIRED 18. RATIONALE FOR REQUIRED CHANGE DATE 19. PRIORITY CHANGE DATE This product has recently been TBD allocated to AWIPS OB4, which is scheduled to commence deployment in August 2004. X URGENT ROUTINE EMERGENCY

DRG/CCB/PMC/CMB DECISION								
20. DECISION AUTHORITY LEVEL		FAST TRACK		CCB LEVEL ONLY	PMC or NWS CMB DECISION REQUIRED			
21. CCB LEVEL DECISION	☐ APPROVED ☐ DISAPP			DISAPPROVED	SIGNATURE			
		RECOMMEND A	PPROVA	L	DATE SIGNED			
	FOF	R USE ONLY WHE	N PMC o	r NWS CMB DECISION	REQUIRED			
22. PMC OR NWS CMB DECISION		APPROVED		DISAPPROVED	SIGNATURE/DATE			

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Part A - Page 1 (Cover Sheet)

NWS CHANGE FORM PART A - DATA PRODUCTS SUPPLEMENT											1. ORIGINATOR TRACKING NUMBER			
This inform	ation is red	quired for C)ata Produ	ıcts subm	nissions.							2. W S H TRACKING NUMBER	2A. REV LEVEL	
3. NODE II	4. A	WIPS ID	5. W M	O HEADE	ΞR		6. ADD						NWWSONLY	
	NNNXXX		REV DEL	1710				11. PRIME UPLINK	12. B/U UPLINK					
Notes: The W MO header assignment notes, below, refer to the generic header template: $T_{T}T$							eric header	template: T₁T	₂ A ₁ A ₂ ii.					
		FOR MET	AR CHAN	IGES ON	LY			17. INTERNAL NW S USE ONLY 18. PRODUCT SOURCE			19. AW IPS D	ATA TYPE		
13. COMMS			ELEV		-									
	DEG	DEG MIN SEC DEG MIN S		(IVI)	20. NOTIFIC	CATION	A. CHANGE NOTICE NUMBER	B. EFFECTIVE DATE	C. ISSUE DA	TE				
								AWIPS						
								EMWIN						
								NWWS						
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Part A - Page 2 (Data Products Supplement)

NWS CHANGE FORM PART B - FUNDING AND SUPPOR	1. ORIGINATOR T	RACKING NUMBER		
All RC/ECP submissions must also address the following information. Atta referencing each applicable subject.	2. WSH TRACKIN NUMBER	G 2A. REV LEVEL		
FUNDING INFORMATION	SOURCE OF FUNDING	COST DATA		
3A. DEVELOPMENT COSTS		3B.	3C. \$	
4A. OPERARQONAL TEST AND EVALUARQON COSTS		4B.	4C.	
5A. PRODUCRQON COSTS		5B.	5C. \$	
6A. COMMUNICARQONS SERVICE/CIRCUITS COSTS		6B.	6C. \$	
7A. IMPLEMENTARQON SUPPORT COSTS		7B.	7C. \$	
8A. LIFE CYCLE SUPPORT COSTS		8B.	8C. \$	
9A. CCB COST EVALUARQON NWS COST \$ FAA COST \$ DOD C	COST \$ OTHER AGENC (SPECIFY)	Y COST \$	9B. TOTAL COST \$	
SUPPORTING INFO	ORMATION AND SCHEDULES			
10. DEVELOPMENT STATUS/SCHEDULE	11. PROCUREMENT STATUS/ SCH	EDULE		
12. IMPLEMENTATION/RETROFIT STATUS/SCHEDULE	13. FACILITY INFORMATION			
14. COMMUNICATIONS RESOURCES TO BE INSTALLED	15. COMMUNICARQONS RESOUR	CES TO BE REMOVE	D	
16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES	17. COORDINARQON OF CHANGE	WITH OTHER CHAN	GES	
18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED	19. STAFF RESOURCE IMPACTS			
20. LOGISRQCS IMPACTS	21. OPERARQONAL IMPACTS			
22. ADDIRQONAL MAJOR CHANGE ACRQVIRQES				

	<u> </u>		
This information is required prior to publication of Engineering Modification Notes and Software Release Notes. 2. WSH TRACKING	NG NUMBER 2A. REV LEVEL		
PART AND SOFTWARE IDENTIFICATION			
3. ITEM TYPE: 4. ITEM NAME AND 5. ADD 6. OLD PART OR SOFTWARE VERSION 7. NEW PART OF REMOVE	7. NEW PART OR SOFTWARE VERSION		
SOFTWARE DESIGNATOR REPLACE A. PART NUMBER OR B. SERIAL NUMBER OR LOT A. PART NUMBER OR LOT SOFTWARE VERSION SOFTWARE VERSION			
DOCUMENTATION IDENTIFICATION			
8. DOCUMENT 9. DOCUMENT TITLE 10. ADD 11. OLD DOCUMENT 12. NEW DOCUMENT 12. NEW DOCUMENT 12. NEW DOCUMENT 13. NEW DOCUMENT 14. NEW DOCUMENT 15. NEW	12. NEW DOCUMENT		
MODIFY A. IDENTIFIER B. REVISION IDENTIFIER IDENTIFIER	B. REVISION IDENTIFIER		

	NWS PART C - CHANGE A	1. ORIGINATOR TRACKING NUMBER					
	tters should propose implementation action a	2.WSH TRACKING NUMBER		2A REV LEVEL			
3. IMP	LEMENTATION DOCUMENTS REQUIF	RED					
	Engineering Modification Note	Software Release Notes		cument (Sp	pecify)		
		ADDITIONAL IMPLEMENTAT	ION INSTRUCTIONS				
4. IMP	LEMENTATION ACTIVITY REQUIRED		5. REQUIRED COMPLETION DATE	6. RESP PERSO OFFICE			IENT OR EQUIRED TO OMPLETION